Sheet 1 of 3 U.S. Department of Commerce, Patent and Trademark Office Atty Docket No. Serial No. M-8915 US 09/839,637 TO THE TION DISCLOSURE STATEMENT BY APPLICANT **Applicants** (Use several sheets if necessary) Mohammad H. S. Amin et al. Filing Date Group April 20, 2001 Unknown U.S. Patent Documents *Examiner Document Filing Date Initial Number Date Name Class Subclass If Appropriate Sur AA 5,917,322 Jun. 29, 1999 Gershenfeld et al. 324 307 Foreign Patent Documents Translation Document Date Country Class Subclass Yes No AB ART (Including Author, Title, Date, Pertinent Pages, Etc.) Blatter, G. et al., "Design aspects of superconducting-phase quantum bits", The American Physical AC Society (2001) Vol. 63, Pages 174511-1 to 174511-9. AD Briegel, H.-J. et al., "Quantum repeaters for communication" (1998), Pages 1-8. Bruder, C. et al., "Tunnel junctions of unconventional superconductors", The American Physical Society AE (1995) Vol. 51, Pages 904-907. Chrestin, A. et al., "Evidence for a proximity-induced energy gap in Nb/InAs/Nb junctions", The AF American Physical Society (1997) Vol. 55, Pages 8457-8465. Dana, A. et al., "Electrostatic force spectroscopy of a single InAs quantum dot" (2001), Pages 1-5. AG Feynman, R., "Simulating Physics with Computers", International Journal of Theoretical Physics (1982) AH Vol. 21, Pages 467-488. Grover, L., "A fast quantum mechanical algorithm for database search", Pages 1-8. ΑI Havel, T. et al., "Principles and demonstrations of quantum information processing by NMR ΑJ spectroscopy" (1999), Pages 1-42. Jacobs, A. et al., "Proximity Effect, Andreev Reflections, and Charge Transport in Mesoscopic AK Superconducting-Semiconducting Heterostructures" (1998) eight pages... Jones, J. et al., "Implementation of a quantum search algorithm on a quantum computer", Nature (1998) ALVol. 393, Pages 344-346. Examiner **Date Considered** 10-20-2003 *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

Sheet 2 of 3 Commerce, Patent and Trademark Office Atty Docket No. Serial No. M-8915 US 09/839,637 INFORMATION DISCLOSURE STATEMENT BY APPLICANT **Applicants** (Use several sheets if necessary) Mohammad H. S. Amin et al. Filing Date Group April 20, 2001 Unknown U.S. Patent Documents *Examiner Document Filing Date Initial Number Date Name Class Subclass If Appropriate AAForeign Patent Documents Translation Document Date Country Class Subclass Yes No AB ART (Including Author, Title, Date, Pertinent Pages, Etc.) Joyez, P. et al., "Observation of Parity-Induced Suppression of Josephson Tunneling in the AC Superconducting Single Electron Transistor", The American Physical Society (1994) Vol. 72, Pages 2458-Kitaev, A., "Quantum measurements and the Abelian Stabilizer Problem" (1995) Pages 1-22. AD Knill, E. et al., "Resilient Quantum Computation", Science (1998) Vol. 279, Pages 342-345. AF Korotkov, A. et al., "Charge sensitivity of radio frequency single-electron transistor", American Institute AF of Physics (1999) Vol. 74, Pages 4052-4054. Lachenmann, S. et al., "Charge transport in superconductor/semiconductor/normal-conductor step AG junctions", The American Physical Society (1997) Vol. 56, Pages 108-115. AH Mooij, J. et al., "Josephson Persistent-Current Qubit", Science (1999) Vol. 285, Pages 1036-1039. Nakamura, Y. et al., "Coherent control of macroscopic quantum states in a single-Cooper-pair box", ΑI Nature (1999), Vol. 398, Pages 786-788. Omelyanchouk, A. et al., "Ballistic Four-Terminal Josephson Junction: Bistable States and Magnetic AJ Flux Transfer" (1999) Pages 1-11 with six pages of drawings. Ouboter, R. et al., "Macroscopic quantum interference effects in superconducting multiterminal AK microstructures", Academic Press (1999) Vol. 25, Pages 1005-1017. Ryazanov, V. et al., "Coupling of two superconductors through a ferromagnet: evidence for a η AL junction" (2000) Pages 1-6. Examiner Date Considered 10-20-2003

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